2	BATTERY-GRID MAKING	16	RAILWAY-CHAIR MAKING
2.1	BIAS (I.E., HELICALLY) CUTTING OF	17.1	FOIL OR OTHER THIN SHEET-METAL
	TUBULAR STOCK		MAKING OR TREATING
2.11	.Including orbital cutter	17.2	.Method
2.12	Within stock support	17.3	Clad or other composite foil or
2.13	With orbiting strip accumulator		thin metal making
2.14	.Including means to inflate stock	17.4	With assembling or
2.15	.With means to feed stock along		disassembling of a pack
	support or mandrel	17.5	Using transitory solid cover material
2.16	Single means produces compound motion	17.6	Including bond prevention treatment
2.17	Endless belt drive means	17 7	
2.18	Axially	17.7	Disassembling of a pack
2.19	Rotatably	17.8	By shaving or longitudinal
2.2	.With means to rotate and store	17 0	cutting
	stock supply	17.9	Using transitory material
2.21	Axis of rotation parallel to support or mandrel	18.1	.Means for opening or separating a pack
2.22	.With means for arcuate shift of	20	SPECTACLE-FRAME MAKING
	mandrel	20.1	SPIRAL CUTTING OF FLAT STOCK
2.23	.Including means to handle	21	STEREOTYPE-PLATE FINISHING
	produced strip or web	21.1	MEANS FOR FORMING CLENCH-TONGUE
2.24	With common adjustment for		(E.G., FOR TIEBAND)
	cutter	22	TIRE UPSETTING, WITH CUTTING,
2.25	.Method		PUNCHING, ETC.
3	BUCKLE MAKING	23.1	TOOTHED-CYLINDER MAKING APPARATUS
4	BUTTON-FASTENER MAKING		(E.G., TEXTURE WORKING
4.51	SHREDDING METAL OR METAL WOOL		CYLINDER)
	ARTICLE MAKING	23.51	IMPELLER MAKING APPARATUS
4.52	.Metal wool making	24	TYPE FINISHING AND GROOVING
4.53	Shaving or longitudinal cutting	24.5	VENETIAN BLIND ASSEMBLING
4.54	Soap-pad making	25	UMBRELLA-FRAME MAKING
4.55	.Metal wool bundling	25.01	BARRIER LAYER OR SEMICONDUCTOR
4.56	Soap-pad making		DEVICE MAKING
4.6	CORD HEDDLE MAKING	25.02	.Barrier layer device making
5	COTTER-PIN MAKING	25.03	Electrolytic device making
6.01	CRANKSHAFT MAKING APPARATUS		(e.g., capacitor)
6.1	EXPANDED METAL MAKING	25.35	PIEZOELECTRIC DEVICE MAKING
6.2	.By use of reciprocating	25.41	ELECTRIC CONDENSER MAKING
0.2	perforator	25.42	.Solid dielectric type
7	EYEBOLT OR HOOK MAKING	76.1	FILING
7.1	FENCE BARB MAKING	76.2	.Of key article
7.2	.By use of reciprocating cutter	76.3	.Continuous band type
7 • 4	or die	76.4	.Reciprocating type
7.3	.By use of rotary cutter or die	77	.File-blank stripper
8	FINGER-RING FORMING OR SIZING	81.01	SCALE REMOVER OR PREVENTOR
9	FISHHOOK MAKING	81.02	.For hollow workpiece
10	GEM AND JEWEL SETTING	81.021	Interior surface
11	HINGE MAKING OR ASSEMBLING	81.03	.Rolling deformation or
12			deflection
13	LACING-STUD MAKING	81.04	For wire or rod
14	PAPER-FASTENER MAKING	81.05	.With rotary head
15	PLOW OR CULTIVATOR IRON MAKING PUDDLERS' BALLS MAKING	81.06	.Fluid impingement
ΤĴ	FUDDUERS DALLS MAKING		<del>-</del> -

81.07	With heater	603.03	Making disc drive
81.08	Liquid jet	603.04	Mounting preformed head/core
81.09	Airblast		onto other structure
81.1	.Chainer	603.05	Mounting multitrack head
81.11	.Scraper or scalper	603.06	With bonding
81.12	.Brush type	603.07	Fabricating head structure or
81.13	.Mechanically powered operator		component thereof
81.14	Tack or needle type	603.08	Treating to affect magnetic
81.15	Hammer	003.00	properties
81.16		603.09	Including measuring or
	Blade or chisel	003.03	testing
81.17	.Hand tool	603.1	Using reference point/
89.5	BURNING IN, WEARING IN, OR OIL	003.1	surface to facilitate
00 01	BURNISHING		measuring
90.01	BURNISHING	603.11	3
90.1	.Of water laid fibrous article	603.11	With dual gap materialsWith significant slider/
	(e.g., paper)	003.12	
90.2	Heated burnishing member	CO2 12	housing shaping or treating
90.3	Burnishing tool reciprocates	603.13	Depositing magnetic layer
	across work surface	602 14	or coating
90.5	.Continuous feed	603.14	3 -
90.6	.Of gear article	602 15	layers
90.7	.By shot peening or blasting	603.15	With etching or machining
91	UPHOLSTERED ARTICLE MAKING	600 16	of magnetic material
91.1	.Method	603.16	Machining magnetic material
91.2	.Tufting		(e.g., grinding, etching,
91.3	With means to clench fastener	600 45	polishing)
91.4	With means to insert guide pin	603.17	
	or fastener	603.18	By etching
91.5	.Cover stretching	603.19	Multitrack heads having
91.6	.Edge-roll forming		integral holding means
91.7	.Form or holder	603.2	With bond/laminating
91.8	With follower		preformed parts, at least two
592	METHOD OF MECHANICAL MANUFACTURE		magnetic
592.1	.Electrical device making	603.21	Using glass bonding
593	Including measuring or testing		material
	of device or component part	603.22	With work positioning means
594	Acoustic transducer	603.23	Providing winding
595	Indicating transducer	603.24	Multilayered winding
596	Dynamoelectric machine	603.25	By coating
597	Commutator or slip ring	603.26	Preformed winding
331	assembly	603.27	Specified diverse magnetic
598	Rotor		materials
599		604	Data storage inductor or core
	Superconductor	605	By winding or coiling
600	Antenna or wave energy	606	By assembling coil and core
601	"plumbing" making	607	Including permanent magnet or
601	With other electrical		core
600 1	component	608	From comminuted material
602.1	Electromagnet, transformer or	609	Laminated
600 51	inductor	609.1	Acoustic transducer
603.01	Magnetic recording reproducing	610.1	Resistor making
	transducer (e.g., tape head,	611	Heater type
600 00	core, etc.)	612	Thermally variable
603.02	Including dissassembly step	V + Z	···Incinating variable

613	With envelope or housing	845	With shaping or forcing
614	Filling with powdered	0.4.5	terminal into base aperture
C1 F	insulation	846	Manufacturing circuit on or
615	With direct compression of powdered insulation	847	in baseWith selective destruction
616	Powdering the insulation	047	of conductive paths
617	By oxidation	848	With molding of insulated
618	With winding	010	base
619	Applying terminal	849	Simultaneous circuit
620	Coating resistive material on		manufacturing
	a base	850	By using wire as conductive
621	Applying terminal		path
621.1	Strain gauge making	851	With sintering of base
622	Switch making	852	By forming conductive walled
623	Fuse making		aperture in base
623.1	Electric battery cell making	853	With deforming of
623.2	Including sealing		conductive path
623.3	Including laminating of	854	Assembling electrical
	indefinite length material		component directly to terminal
623.4	Including adhesively bonding	0.5.5	or elongated conductor
623.5	Including coating or	855	With encapsulating
	impregnating	856	By molding of insulating
825	Conductor or circuit	0.5.7	material
006	manufacturing	857	Assembling terminal to elongated conductor
826	Brush	858	
827	Beam lead frame or beam lead device	020	With molding of electrically insulating material
828	Co-axial cable	859	By shrinking of cover
829	On flat or curved insulated	860	By metal fusion bonding
	base, e.g., printed circuit,	861	By deforming
	etc.	862	Of ferrule about conductor
830	Assembling bases	0.63	and terminal
831	Assembling formed circuit to	863	Of terminal
020	base	864	With forming eyelet from
832	Assembling to base an	865	elongated conductor
	electrical component, e.g.,	866	With penetrating portionThrough insulation
833	capacitor, etc.	867	With insulation removal
033	By utilizing optical sighting device	868	Assembling elongated
834	With component orienting	000	conductors, e.g., splicing,
835	And shaping, e.g., cutting		etc.
	or bending, etc.	869	With end-to-end orienting
836	Different components	870	Including fluid evacuating
837	By inserting component lead		or pressurizing
	or terminal into base aperture	871	Including deforming of
838	With deforming of lead or		joining bridge
	terminal	872	With overlapping orienting
839	Including metal fusion	873	Including oppositely facing
840	By metal fusion		end orienting
841	With encapsulating, e.g.,	874	Contact or terminal
	potting, etc.		manufacturing
842	$\ldots$ Assembling terminal to base	875	By powder metallurgy
843	By metal fusion bonding	876	By assembling plural parts
844	By deforming or shaping	877	With bonding
		878	Of fused material

879	Metal	888.072	Including casting or molding
880	By impregnating a porous	888.073	Including rolling or die
	mass		forming, e.g., drawing,
881	By elastic joining		punching
882	With deforming	888.074	Including coating or plating
883	With molding of insulation	888.075	Including grinding or honing
884	Forming array of contacts or	888.076	Including machining or angular
	terminals		cutting
885	With coating	888.08	Crankshaft making
886	Electret making	888.09	Connecting rod making
887	Insulator making		Including metallurgical
888	.Prime mover or fluid pump making		bonding
888.01		888.092	Including metal forging or die
000.01	engine making		shaping
888 011	Repairing, converting,	888.1	Camshaft making
000.011	servicing or salvaging	888.2	Push rod or rocker arm making
888 013	2Rotary or radial engine making	888.3	Seal or packing making
888.02	_	888.4	Poppet or I.C. engine valve or
	Repairing, converting,	000.4	valve seat making
000.021	servicing or salvaging	888.41	Valve guide making
000 000		888.42	Repairing, converting,
	2Scroll or peristaltic type	000.42	servicing or salvaging
888.023	3Screw or gear type, e.g.,	888.43	
000 00	Moineau type		Valve tappet makingValve seat making
	Centrifugal type		
888.025	Vane type or other rotary,	888.45	Composite or hollow valve stem
000 00	e.g., fan	000 451	or head making
	Valve lifter making		Including forging
	Piston making		Including extruding
888.041	Repairing, converting,		Including casting
	servicing or salvaging	888.46	With assembly or composite
	2Multi-element piston making		article making
888.043	3Utilizing a high energy beam,	889	.Impeller making
	e.g., laser, electron beam	889.1	Repairing or disassembling
888.044	lWith assembly or composite	889.2	Turbomachine making
	article making	889.21	Assembling individual fluid
888.045	With thermal barrier or heat		flow interacting members,
	flow provision		e.g., blades, vanes, buckets,
888.046	5With fiber reinforced		on rotary support member
	structure	889.22	Assembling fluid flow
888.047	$^{\prime}$ By composite casting or		directing devices, e.g.,
	molding		stators, diaphragms, nozzles
888.048	3By coating or cladding	889.23	Shaping integrally bladed
888.049	ORing groove forming or		rotor
	finishing	889.3	Axial blower or fan
888.05	Gudgeon pin, wrist pin, piston	889.4	Centrifugal blower or fan
	pin, or boss therefor	889.5	Fluid coupling device
888.051	With other attaching provision	889.6	Propeller making
	for connecting rod	889.61	Utilizing hollow tube blank
888.06	Cylinder, cylinder head or	889.7	Blade making
	engine valve sleeve making	889.71	Composite blade
888.061	With liner, coating, or sleeve	889.72	Hollow blade
888.07	Piston ring or piston packing	889.721	With cooling passage
	making	889.722	Passage contains tubular
888.071	Including forging or hammering		insert
		890	.Catalytic device making

890.01	Dealest and det dealest meliting	000 104	
000 00	.Rocket or jet device making	890.124	With assembly, disassembly or
890.02	.Burner, torch or metallurgical	000 105	composite article making
000 03	lance making	890.125	Joining plural semi-circular
	.Heat exchanger or boiler making	000 126	components
890.031	Repairing, converting,	090.120	With material shaping or
000 022	servicing or salvaging	000 107	cutting
	Heat pipe device making		Including molding or casting
	Solar energy device making	890.128	Including machining or
890.034	Regenerator or recuperator	000 100	drilling
000 035	making	090.129	Including metallurgical bonding
890.035	Cooling apparatus making, e.g.,	000 12	
000 026	air conditioner, refrigerator		Including metal deforming
	Tube inside tube	890.131	Including metallurgical
	Tube wound about tube	000 120	bonding
890.038	Tube joined to flat sheet	890.132	Including metal shaping and
	longitudinally, i.e., tube	000 14	diverse operation
000 020	sheet	890.14	.Gas and water specific plumbing
	Sheet joined to sheet	000 141	component making
	With inserted tubes		Plumbing fixture making
890.041	Utilizing bond inhibiting		Nozzle making
000 040	material		Sprayer
890.042	With subsequent fluid	890.144	Flexible conduit or fitting
000 040	expansion	000 145	therefor
890.043	Tube joint and tube plate		Flue connector device making
000 044	structure		Trap making
890.044	Including conduit expansion or		Return connector device making
000 045	inflation		T-shaped fitting making
	Tube with heat transfer means	890.149	Elbow or L-shaped fitting
	Finned tube	000 15	making
890.047	Common fin traverses	890 15	Ferrule making or reforming
	plurality of tubes	891	.Agricultural device making
890.048	plurality of tubesHelically finned		.Agricultural device makingTraction apparatus, e.g., for
890.048 890.049	<pre>plurality of tubesHelically finnedInternally finned</pre>	891 891.1	<pre>.Agricultural device makingTraction apparatus, e.g., for    tractor</pre>
890.048 890.049	<pre>plurality of tubesHelically finnedInternally finnedMade from unitary workpiece,</pre>	891 891.1 891.2	<pre>.Agricultural device makingTraction apparatus, e.g., for    tractorHarvester guard</pre>
890.048 890.049 890.05	<pre>plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly</pre>	891 891.1 891.2 892	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley making
890.048 890.049 890.05	<pre>plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler making</pre>	891.1 891.2 892 892.1	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssembly
890.048 890.049 890.05 890.051 890.052	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold making	891.1 891.2 892.892.1 892.11	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shaping
890.048 890.049 890.05 890.051 890.052 890.053	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reforming	891.1 891.2 892 892.1	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssembly
890.048 890.049 890.05 890.051 890.052 890.053 890.054	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding	891.1 891.2 892.892.1 892.11 892.2	.Agricultural device makingTraction apparatus, e.g., for   tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley   rim groove
890.048 890.049 890.05 890.051 890.052 890.053 890.054	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assemblyBoiler makingHeader or manifold makingTube making or reformingWith metallurgical bonding .Accumulator making	891.1 891.2 892.892.1 892.11	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal
890.048 890.049 890.05 890.051 890.052 890.053 890.054	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly .Boiler making .Header or manifold making .Tube making or reforming .With metallurgical bonding .Accumulator making .Condenser, evaporator or	891.1 891.2 892.8 892.1 892.1 892.2 892.3	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim
890.048 890.049 890.05 890.051 890.052 890.053 890.054 890.06	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly .Boiler making .Header or manifold making .Tube making or reforming .With metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making	891.1 891.1 891.2 892.8 892.1 892.1 892.2 892.3	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear making
890.048 890.049 890.05 890.051 890.052 890.053 890.054	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly .Boiler making .Header or manifold making .Tube making or reforming .With metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust	891.1 891.2 892.8 892.1 892.1 892.2 892.3	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force
890.048 890.049 890.05 890.051 890.052 890.053 890.054 890.06 890.07	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly .Boiler making .Header or manifold making .Tube making or reforming .With metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making	891.1 891.2 892.1 892.1 892.1 892.2 892.3 893.3	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting device
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890.048 890.049 890.05 890.051 890.052 890.054 890.06 890.07 890.08 890.09 890.1 890.1 890.12 890.12	plurality of tubesHelically finnedInternally finnedMade from unitary workpiece, i.e., no assembly .Boiler making .Header or manifold making .Tube making or reforming .With metallurgical bonding .Accumulator making .Condenser, evaporator or vaporizer making .Muffler, manifold or exhaust pipe making .Fluidic or fluid actuated device making .Fluid pattern dispersing device making, e.g., ink jet .Tapping device making .Valve or choke making .Repairing, converting, servicing or salvaging	891.2 891.1 891.2 892.1 892.1 892.2 892.3 893.3 893.1 893.2 893.3 893.31 893.32 893.33 893.31	.Agricultural device makingTraction apparatus, e.g., for tractorHarvester guard .Pulley makingAssemblyWith shapingDisc splitting to form pulley rim grooveGroove forming in sheet metal pulley rim .Gear makingAssembling of gear into force transmitting deviceGear mountingGear shapingWorm gearRoll formingPunching or stampingDie-press shaping
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894.01	Railway or trolley wheel making	895.213	Work contacting surface
	Multiple part or composite		having annular axial sections
	With axle or hub	895.22	Work contacting surface
	Steering wheel		element assembled to end
	Material winding, e.g., reel,		support members
	spool	895.23	Includes securing removable
894.3	Land wheel		cover on roller
	Assembling tire to wheel body	895.3	Fabricating and shaping roller
	Disc type wheel		work contacting surface
	Assembling wheel disc to rim		element
	and hub	895.31	Toothed roller
894.322	Assembling wheel disc to rim	895.32	With coating or casting about
894.323	With disc shaping		a core
894.324	Integral rim and disc making	895.33	One-piece roller making
894.325	Disc shaping	896.1	.Dental appliance making
894.33	Tensioned spoke type wheel	896.11	Orthodontic device making
	making	896.2	.Sound device making
894.331	Tensioning all spokes	896.21	Hearing aid component making
	simultaneously	896.22	Musical instrument or tuning
894.332	Tensioning spokes in series		fork making
894.333	Tensioning spokes	896.23	Including diaphragm or support
	individually		therefor
894.34	Compression, e.g., nontension,	896.24	Phonograph component making
	spoke type wheel making	896.3	.Watch or clock making
894.341	Joining spokes to rim and hub	896.31	Having arbor, pinion, or
894.342	Joining spokes to rim		balance
894.343	Joining spokes to hub		Having indicia, face, or dial
894.344	Making plural spokes from a	896.33	Having case, cover, or back
	single blank	896.34	Having crown, stem, or pendent
894.345	Individual spoke making	896.4	.Jewelry or locket making
	Rim making		Human adornment device making
	With assembling		Bracelet making
	Demountable rim making		Finger ring making
	Die-press shaping	896.42	
	Roller forming	006 10	component making
894.36	Hub making	896.43	Ornamental stock making
	With assembling	896.5	.Knob or knob shank making
	Hub shaping	896.6	.Multiperforated metal article
894.37	Tire making	006 61	making
894.38	Wheel trim making, e.g., wheel	896.61	Coil wound wall screen
	cover, hubcap	896.62	Filter
894.381	With means for retaining trim	896.7	.Turnbuckle making
	member on wheel	896.8	.Spring-head clip making
895	.Roller making	896.9	.Spring making
895.1	Repairing or servicing	896.91	For vehicle or clutch
895.2	Assembling preformed components	896.92	For human comfort
895.21	Work contacting surface	896.93	Resilient shock or vibration
	element assembled to core	0.07	absorber utility
895.211	Work contacting surface wound	897	Structural member making
005 015	about core	897.1	Restoring existing member,
895.212	With prestressing of	007 15	e.g., reinforcing, repairing
	component by heat	897.15 897.2	Grille making
	<pre>differential, e.g., shrink, fit</pre>	031.4	Vehicular structural member making
	IIL		making

897.3	Static structure, e.g., a	898 068	Roller making
037.3	building component		Ball making
897.31	Openwork, e.g., a truss,	898.07	
03.101	joist, frame, lattice-type or	898.08	Demounting
	box beam	898.09	Pre-usage process, e.g.,
897.312	Frame component	030.03	preloading, aligning
897.32	Panel	898.1	Lubricating
897.33	Columnar member	898.11	Sealing
897.34	Metal reinforcement member for	898.12	Coating or casting
037.31	nonmetallic, e.g., concrete,	898.13	Bearing surface treatment
	structural element	898.14	Specific metallic composition
897.35	Beam or girder	898.15	Nonmetallic bearing element
898	.Process for making bearing or	899	Normetallic bearing element .Ball making
030	component thereof	899.1	3
898.01	Repairing	401.1	Hollow ball
898.02	Fluid bearing		.Converting
898.03	Linear bearing		Repairing
898.04	Rotary bearing	402.02	Seal or element thereof
	Thrust bearing	402.03	With disassembling
	Plain bearing	402.04	Including reconditioning of
	Self-adjusting or self-	400 05	part
090.043		402.05	By shaping
	aligning, including ball and socket type, bearing and	402.06	Removing material
	component making	402.07	And by a metallurgical
898 044	Deforming socket to secure		operation, e.g., welding,
090.044	ball	400 00	diffusion bonding, casting
202 0/5	Die-press shaping		Replacing of defective part
		402.09	By attaching repair preform,
	Having liner		e.g., remaking, restoring, or
	Having liner	400 44	patching
	Socket making		And removing damaged material
	By molding or casting	402.12	Mechanically attaching
	Nonmetallic socket		preform with separate fastener
	By assembling	402.13	Metallurgically attaching
	Ball making		preform
	With metallurgical bonding	402.14	Mechanically attaching preform
	Sleeve or bushing making		by separate fastener
	Nonmetallic	402.15	Screw threaded fastener
	Strip or blank material	402.16	Metallurgically attaching
	shaping		preform
	Die-press shaping	402.17	Screw threaded preform
	Having inner lining layer	402.18	By applying fluent material,
	Having liner		e.g., coating, casting
898.06	Anti-friction bearing or	402.19	By shaping, e.g., bending,
	component thereof		extruding, turning, etc.
898.061	Assembling of race, cage, and	402.21	Including heating
	rolling anti-friction members	403.1	.Scrap recovering or utilizing
898.062	Assembling of race and	403.2	Metalworking to consolidate
	rolling anti-friction members		scrap
	With race making	403.3	Separating one material from
898.064	Assembling of cage and		another
	rolling anti-friction members	403.4	By burning or heating
	With cage making	404	.During simulated operation or
	Race making		operating conditions
898.067	Cage making	405	Temperature

406	.Center locating and shaping	426.1	.Disassembling
407.01	.With testing or indicating	426.2	With other than ancillary
407.02	Torquing threaded assemblage or		treating or assembling
405 00	determining torque herein	426.3	With conveying of work or
407.03	Determining relative number of	106 1	disassembled work part
107 01	threaded member rotations	426.4	By altering or destroying work
407.04	Using optical instrument	426.5	part or connector
	(excludes mere human eyeballing)	426.5	By applying force
407.05	Quantitative measuring or	420.0	To elastically deform work part or connector
407.05	gauging	428	.Assembling or joining
407.06	By radioactive tracing	429	Progressively advancing of work
407.07	By vibratory or oscillatory	427	assembly station or assembled
207.07	movement		portion of work
407.08	Pressure, force, or weight	430	Advancing work to successive
	determining		stations (i.e., assembly line)
407.09	With aligning, guiding, or	431	Advancing station
	instruction	432	Punching, piercing or reaming
407.1	Assisting assembly or		part by surface of second part
	disassembly	432.1	With shaping
408	.Of a slide fastener	432.2	Of first part
409	Of slider	433	By stringing
410	Of interlocking element	434	Retaining clearance for motion
411	.Obtaining plural composite		between assembled parts
	product pieces from	435	Between tube-forming helical
	preassembled workpieces		coils
412	.Obtaining plural product pieces	436	Through resilient media
	from unitary workpiece	437	By deforming interlock
413	Breaking through weakened	438	By folding part into plural
	portion		ears
414	Dividing through modified	439	By wrapping around
44 =	portion	440	Of link closure
415	Dividing on common outline	441.1	Of sphere, i.e., ball, in
416	Coacting pieces	444	socket
417	Dividing sequentially from	441.2	Ball point pen making
	<pre>leading end, e.g., by cutting or breaking</pre>	442	Allowing assembled sphere to
418	.Providing transitory integral	4.42	move in single plane only
410	holding or handling portion	443	Of flange into tubular socket
419.1	.Shaping fiber or fibered	444	Outwardly deforming
417.1	material	445	internally fitted rod
419.2	.Magnetically shaping	445	Sizing mating parts during final positional association
421.1	.Shaping by direct application of	446	With prestressing of part
	fluent pressure	447	By temperature differential
421.2	Explosively shaping	447	(e.g., shrink fit)
422	.Shaping container end to	448	Of skin on frame member
	encapsulate material	449	By flexing
423	.Utilizing transitory attached	450	Elastic joining of parts
	element or associated separate	451	Confining elastic part in
	material		socket
424	Temporary protective coating,	452	Prestressing rod, filament or
	impregnation, or cast layer		strand
425	.Shaping mating parts for	453	By snap fit
	reassembly in different		
	positions		

454	Of flexible wall, expansible	518	Joined to overlapping ends
	chamber devices (e.g.,		of plural rods
	bellows)	519	After thinning
455.1	Spaced wall tube or receptacle	520	By axially applying force
456	Of separate helix (e.g., screw	521	Surface interlocking
	thread)	522.1	Radially expanding part in
457	Ribbing	J22.I	
			cavity, aperture, or hollow
458	With coating before or during	F02	body
450	assembling	523	Radially expanding internal
459	To roughen surface		tube
460	Subsequently coating	524	Peripheral edge joining of
461	With spreading of cable strands		abutting plates
462	Joining plate edge	524.1	Riveting
	perpendicularly to frame	525	By driven force fit
463	Peripheral joining of opposed	525.01	By applying separate fastener
	mirror image parts to form a	525.02	Multipart cooperating fastener
	hollow body		(e.g., bolt and nut)
464	Associating parts by use of	525.03	Nonthreaded
101	aligning means (e.g., use of a	525.04	At least one part is
	drift pin or a "fixture")	525.04	nonmetallic
465	Registering mating opposed	FOF 0F	
405		525.05	Fastener deformed after
	tool parts (e.g., registering		application
	a punch and a cooperating die)	525.06	Riveting
466	By multiple cooperating	525.07	At least one part
	aligning means		nonmetallic
467	Sequentially associating parts	525.08	Nonresilient fastener
	on stationary aligning means	525.09	At least one part nonmetallic
468	By manipulating aligning means	525.11	Threaded fastener
469	Assembling a subassembly, then	525.12	At least one part nonmetallic
	assembling with a second	525.13	With supplemental joining
	subassembly	525.14	Metal fusion joining
469.5	Metal deforming with	525.15	At least one part nonmetallic
	nonmetallic bonding	526.2	
505	Joining by deforming	520.2	.With separating, localizing, or
506	Securing cup or tube between		eliminating of as-cast defects
300	axially extending concentric		from a metal casting (e.g.,
	annuli		anti-pipe)
F 0 7		526.3	Compressing ingot while still
507	By expanding inner annulus		partially molten
508	By constricting outer annulus	526.4	Removing defects
509	Overedge assembling of seated	526.5	From center of ingot to leave
	part		hollow blank
510	By necking in cup or tube	526.6	After deforming
	wall	527.1	.Combined manufacture including
511	At cup or tube end		applying or shaping of fluent
512	By flaring inserted cup or		material
	tube end	527.2	Coating
513	By bending over projecting	527.3	3
313	prongs		And casting
514	Of parallel side-by-side	527.4	Subsequent to metal working
フェヰ	elongated members	527.5	Metal casting
C1C	•	527.6	Followed by cutting or
515	Inward deformation of aperture		removing material
F1.6	or hollow body wall	527.7	Combined with rolling
516	Hollow body is axially joined	530	Filling of opening
-4-	cup or tube	557	.Shaping one-piece blank by
517	Joined to rod		removing material

558	Successive distinct removal	564.4	Comprising means to strip
	operations		insulation from wire
559	.Work holding	564.5	And means to stake electric
560	CONVERTIBLE METAL WORKING MACHINE		wire to commutator or armature
560.1	.Vise type		in assembling of electric
33 R	PLURAL DIVERSE MANUFACTURING		motor or generator
	APPARATUS INCLUDING MEANS FOR	564.6	And means to sever work from
	METAL SHAPING OR ASSEMBLING		supply
33.2	.Slide fastener or slide fastener	564.7	And means to machine product
	element	564.8	To sever product to length
33.5	.Binding or covering and cutting	565	.Common reciprocating support for
33.52	Cutting covering material only		spaced tools
	.Type of machine	566	.Including composite tool
26 R	Drill press	566.1	Including severing means
26 A	Drilling and other	566.2	To sever electric terminal
26 B	Portable		from supply strip
27 R	Lathe	566.3	To trim electric component
28	Grinding attachment	566.4	Means comprising hand-
29	Pulley or wheel		manipulatable implement
27 A	Convertible	35.5	.With turret mechanism
27 B	Commutator	36	Multiple turret
27 C	Lathe and tool	39	Tool turret
30	Planer	40	Rotary tool holder
34 R	.Forging and bending, cutting or	41	Sliding tool holder
	punching	42	Fluid operated
34 A	Fastener (zipper)		Cam operated
34 B	Riveting	43	Longitudinal turret axis
34 C	Ball making	44	Transverse turret axis
34 D	Wire working	45	Lever operated
561	.With means to feed work during	46	Rack-and-pinion operated
	tool contact	47	Screw operated
562	Including nonrotary flying tool	48.5 R	Including rotating and/or
563	.With means to feed work		locking means
	intermittently from one tool	49	Frictional and positive
	station to another	48.5 A	Lock means for tool or work
37 R	Stock turret		turrets
37 A	Swiss type	50	.Multiple-tool holder
38 R	Blank turret	51	Laterally movable stock holder
38 A	Rotary work - vertical axis	52	Axial tool and transversely
38 B	Rotary work - horizontal axis		movable slide rest
38 C	Stationary work	53	Rotary tool spindle
38 D	Belt drive	54	Longitudinally and transversely
38 E	Crankshaft		movable
38 F	Collapsible tube	55	Rotary tool spindle
38.9	Endless belt	56	Oscillating tool
564	.Separate tool stations for	56.5	.Including machining means
	selective or successive	56.6	And work-holder for assembly
	operation on work	57	.Attachment
564.1	Including assembling or	64	.Speed controller
F.C.4. ^	disassembling station	65	.Carriage stop mechanism
564.2	And means to machine work part	33 A	.Flash remover
F.C.4. ^	to fit cooperating work part	33 B	.Welding strip ends
564.3	And means to sever work prior	33 C	.Casting and working
	to disassembling	33 D	.Tube making

33 E	.Covering	720	.With signal, scale, illuminator,
33 F	.Wire working	, _ 0	or optical viewer
33 G	.Radiator making	721	For work-holder for assembly or
33 H	.Printing plate		disassembly
33 J	.Turret	722	.Including means to provide a
33 K	.Assembly		controlled environment
33 L	.Armature	723	.Nuclear device
33 M	.Electrical connector or terminal	724	.Roller or ball bearing
33 N	.Tire valve or spark plug	725	Including deforming means
33 P	.Multiple station with conveyor	726	.Heat exchanger
33 Q	.Multiple stations working strip	726.5	Including means to manipulate
22 6	material	727	heat exchanger tube bundle
33 S	.Continuous strip		Including deforming means
33 T	.Work on tubes	728	.Means to place sheath on
650	PLURAL DIVERSE MANUFACTURING	729	running-length core
700	APPARATUS	129	.Means to assemble electrical device
700	MEANS TO ASSEMBLE OR DISASSEMBLE	730	
701	.With means to regulate operation	731	Storage cell or battery
	by use of templet, tape, card	_	Including deforming means
	or other replaceable	732	Motor or generator
700	information supply	733	Means to assemble commutator
702	With comparator	734	Means to position insulation
703	Computer input	735	Means to stake wire to
704	Web or strand-carried	<b>7</b> 26	commutator or armature
E 0 E	information supply	736	Including deforming means
705	.With means to test work or	737	Magnetic memory device
706	product	738	Laminated device
706	.With randomly actuated stopping or disabling means	739	Means to fasten electrical component to wiring board,
707	Responsive to condition of work		base, or substrate
	or product	740	Chip component
708	Responsive to operative (e.g.,	741	Multilead component
	safety device, etc.)	742	Multiple station assembly
709	.With control means energized in		apparatus
	response to activator stimulated by condition sensor	743	Means to apply vacuum directly to position or hold work part
710	Including means to divert	744	Means to apply magnetic force
	defective work part	, 11	directly to position or hold
711	Multiple station assembly or		work part
	disassembly apparatus	745	Conductor
712	Including position sensor	746	Electrode
713	Responsive to timer	747	Terminal or connector
714	Responsive to work or work-	748	Assembled to wire-type
	related machine element	, 10	conductor
715	With means to fasten by	749	Means to simultaneously
	deformation		assemble multiple, independent
716	Self-piercing work part		conductors to terminal
717	With means to fasten by	750	Means comprising hand-
	elastic joining		manipulatable implement
718	With means to fasten by	751	Fastening by deformation
	frictional fitting	752	Fastening by elastic
719	Including means to apply		joining
	magnetic force directly to	753	Means to fasten by
	position or hold work		deformation

754	Means to fasten by elastic	790	By friction fit
754	joining	791	by iffection fit .Multiple station assembly or
755	Multiple, independent	7.7.1	disassembly apparatus
733	conductors	792	Including turret-type conveyer
756	Switch or fuse	793	Including converging conveyers
757	Means to simultaneously fasten	794	And primary central conveyer
, 3 ,	three or more parts	795	Means to fasten work parts
758	Means comprising hand-	, 3 3	together
, 3 0	manipulatable implement	796	By deforming
759	Means to align and advance work	797	By elastic joining
	part	798	.Means to drive self-piercing
760	With work-holder for assembly	, 3 0	work part
761	Means to fasten by deforming	799	.Including assembly pallet
762	.Means to disassemble electrical	800	.Including provision to utilize
	device		thermal expansion of work
763	Storage cell or battery	801	.Means to assemble or disassemble
764	Means comprising hand-		container and fluid component
	manipulatable implement	802	.Vehicle wheel
765	.Means to place traveler on ring	803	Railway wheel
	or ring on bobbin of a textile	804	.Tumbler lock
	machine	805	.Toy doll
766	.Slide fastener	806	.Film or tape cartridge
767	Means to assemble stop onto	807	.Crystal to watch or clock
	stringer	808	.Means to insert or extract pen
768	Means to assemble slider onto		point
	stringer	809	.With magazine supply
769	Means to assemble teeth onto	810	And magnetic work-holder or
	stringer		positioner
770	Disassembly means	811.2	Assembling means comprising
771	.Means to interrelatedly feed		hand-manipulatable implement
	plural work parts from plural	812	One work part comprising
	sources without manual		living tissue
	intervention	812.5	Comprising driver for snap-
772	Box or pallet assembly means		off-mandrel fastener; e.g.,
773	Means to assemble container		Pop (TM) riveter
774	Handle to container	813	One work part comprising nut
775	Label to container		or screw
776	Pressurized dispensing	814	One work part comprising paper
777	container	0.1 =	clip
	Hypodermic syringe	815	Means to assemble tire stud
778	Including fluid component	016	into tire tread
779 780	Running-length work	816	Means to fasten by deforming
760	Means including orbiting	817	Fastening sinker to fishing
781	running-length work supplyPipe section	010	line
782	Assembled to article	818	Means to fasten by deforming
783	Multiple station assembly	819	.Running-length work
703	apparatus	820	Assembled on core
784	Including assembly pallet	821 822	.Including means to vibrate work
785	Including turret-type conveyer	823	.Including work conveyer
786	Including converging conveyers		Including transporting track
787	And means to fasten work parts	824	And work carrying vehicle
, , ,	together	213.1	.Valve applying or removing
788	By deforming	214	Engine valve unit puller or
789	By elastic joining		applier
. 5 5	, cractro joining		

215	Engine valve spring compressor	243.522	Including near side fastener
	(only)		shaping tool
216	Plural spring engagement	243.523	Pneumatic- or fluid-actuated
217	Screw operated		tool
218	Parallel or tong type, side	243.524	Liquid
	entrance		And gas
219	Lever operated		Having rotary drive
	_	243.320	mechanism
220	Single jaw or valve	242 527	
0.04	engagement	243.527	Having allochiral actuating
221	Plier type		handles
221.5	To or from wheel rim of	243.528	Having repositionable
	resilient tire or tube		annulus engaging tool
221.6	Removal tool	243.529	Including near side fastener
222	.Piston ring inserter or remover		shaping tool
223	Plier-type operation	243.53	Riveter
224	With ring encirclement	243.54	Single header
225	.Spring applier or remover	243.55	Pipe joiner
226	Transmission spring	243.56	Clip applier
227	Helical spring	243.57	
228		243.57	Edge binding
440	Flat spiral spring (e.g., watch		
000	or clock type)	244	.Puller or pusher means,
229	Circular spring		contained force multiplying
230	Leaf spring	0.45	operator
231	.Means to stake watch or clock	245	Hubcap and hub
232	Plier type	246	Battery post and terminal
233	.Brake lining to brake shoe	247	Cotter pin and cooperating
234	.Tube and coextensive core		member
235	.To apply or remove a resilient	248	Plier type means
	article (e.g., tube, sleeve,	249	Valve stem pin or key and
	etc.)		another member
235.5	Nipple to nursing bottle	250	Machine key and another member
236	Well protector to sucker rod	251	Arbor-type press means
237	.Coupling to conduit	252	Having fluid operator
237.5	.Loose-leaf sheet binder	253	Having wedge operator
238	.Compressing parts together face	254	Having percussion or explosive
200	to face		operator
239	.Spreading parts apart or	255	Tube, sleeve, or ferrule
233	separating them from face to		inserting or removing
	face engagement	256	Having screw operator
240	.By rotation of work part	257	C-frame
240.5		258	Central screw, work-engagers
	Means to insert or remove helix	230	
241	.Means to string	250	around screw
242	.Tool handle and tool	259	Work-engager arms along or
243	.Tool chuck and tool	0.50	parallel to screw
243.5	.Overedge assembling means	260	With arm connecting engaging
243.51	Belt-hook attacher		means
243.517	Annular work	261	Pivotal arms
243.518	With radially acting tool	262	Pivotal grippers on screw
	inside annular work	263	Tubular or tube segment forms
243.519	With second workpiece inside		work-engager
	annular work one workpiece	264	Screw threaded work-engager
	moved to shape the other	265	Movable grippers on screw
243.521	Comprising driver for snap-	266	Plate or bar forms work-
	off-mandrel fastener; e.g.,		engager
	Pop (TM) riveter		

267	Having lever operator	FOR (	000	CLASS-RELATED FOREIGN DOCUMENTS
268	Plier type means			
269	.Means comprising piston ring			
	group contractor or holder			
270	.Means comprising hand manipulatable tool	DIGES	<u>STS</u>	
271	Aligner or center			
272	Tube with tube	DIG 1	Τ	METHOD OR APPARATUS INVOLVING
				ADHESIVE
273	Auto wheel with auto chassis	DIG 2	2	METHOD OR APPARATUS USING
274	Clutch plates			ALUMINUM
275	Means comprising impact	DIG 3	3	METHOD OR APPARATUS WITH BENDING
	receiving tool	DIG 4	4	METHOD OR APPARATUS WITH BRAZING
276	C-frame	DIG 5	5	METHOD OR APPARATUS WITH CASTING
277	Thread protector (e.g., wheel	DIG 6	6	METHOD OR APPARATUS WITH
	axle type)			CENTRIFUGAL CASTING
278	Hand gripper for direct push or	DIG	7	METHOD OR APPARATUS WITH CLEANING
	pull	DIG 8	8	METHOD OR APPARATUS WITH
279	Centrifugal separator			COMPOSITE CASTING
280	Tube sleeve or ferrule	DIG 9	9	METHOD OR APPARATUS WITH CUP
	applying or removing	DIG .	,	FORMED AND BOTTOM REMOVED
281	Thread-tapping grip	DIG 3	1 0	METHOD OR APPARATUS WITH DIE
281.1	.With work-holder for assembly	DIG .	10	CASTING
281.2	For assembling a luminescent	DIG 3	1 1	
201.2	mantle			METHOD OR APPARATUS WITH DRAWING
281.3	And assembling press (e.g.,	DIG 1	12	METHOD OR APPARATUS WITH
201.5			4.0	ELECTROPLATING
281.4	truss assembling means, etc.)	DIG 1	13	METHOD OR APPARATUS WITH ELECTRIC
201.4	Having means to permit support			HEATING
	movement while work is thereon	DIG 1	14	METHOD OR APPARATUS WITH
001 -				
281.5	.Including means to relatively			ENAMELING
	position plural work parts	DIG 3	15	ENAMELING FORMING ARTICLE ON END OF LONG
281.6	position plural work parts .Work-supported apparatus	DIG 1	15	
281.6 282	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule	DIG 1		FORMING ARTICLE ON END OF LONG
281.6 282 283	position plural work parts .Work-supported apparatus		16	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF
281.6 282	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule	DIG 1	16	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING
281.6 282 283	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element	DIG 1	16 17	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING
281.6 282 283 283.5	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element .By deforming	DIG 1	16 17 18	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING FLOW LINES; CRYSTALS
281.6 282 283 283.5	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element .By deforming	DIG 1	16 17 18	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING FLOW LINES; CRYSTALS METHOD OR APPARATUS WITH FORGING
281.6 282 283 283.5	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element .By deforming	DIG 1 DIG 1 DIG 1	16 17 18	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING FLOW LINES; CRYSTALS METHOD OR APPARATUS WITH FORGING METHOD OR APPARATUS WITH GRINDING
281.6 282 283 283.5 284	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element .By deforming	DIG 1 DIG 1 DIG 1 DIG 2	16 17 18 19 20	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING FLOW LINES; CRYSTALS METHOD OR APPARATUS WITH FORGING METHOD OR APPARATUS WITH GRINDING METHOD OR APPARATUS FOR DOUBLE
281.6 282 283 283.5 284	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element .By deforming MISCELLANEOUS APPARATUS	DIG 1 DIG 1 DIG 1 DIG 2	16 17 18 19 20	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING FLOW LINES; CRYSTALS METHOD OR APPARATUS WITH FORGING METHOD OR APPARATUS WITH GRINDING METHOD OR APPARATUS FOR DOUBLE BLANK
281.6 282 283 283.5 284	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element .By deforming MISCELLANEOUS APPARATUS  EFERENCE ART COLLECTIONS	DIG 2 DIG 2 DIG 2 DIG 2 DIG 2	16 17 18 19 20 21	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING FLOW LINES; CRYSTALS METHOD OR APPARATUS WITH FORGING METHOD OR APPARATUS WITH GRINDING METHOD OR APPARATUS FOR DOUBLE BLANK METHOD OR APPARATUS FOR HEATING METHOD OR APPARATUS USING INDIUM
281.6 282 283 283.5 284	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element .By deforming MISCELLANEOUS APPARATUS  EFERENCE ART COLLECTIONS  METHODS AND APPARATUS FOR	DIG 2	16 17 18 19 20 21 22	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING FLOW LINES; CRYSTALS METHOD OR APPARATUS WITH FORGING METHOD OR APPARATUS WITH GRINDING METHOD OR APPARATUS FOR DOUBLE BLANK METHOD OR APPARATUS FOR HEATING METHOD OR APPARATUS USING INDIUM METHOD OR APPARATUS WITH KNURLING
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281.6 282 283 283.5 284 CROSS-RI 900 901 902 903 904 905	position plural work parts .Work-supported apparatus .Tube, sleeve or ferrule .Work gripper, anvil, or element .By deforming MISCELLANEOUS APPARATUS  EFERENCE ART COLLECTIONS  METHODS AND APPARATUS FOR    ASSEMBLY BY ELECTROSTATIC    ATTRACTION BALANCING METHOD FILTER MAKING FIREARM BOLT MAKING LAMINATED METAL ARTICLE MAKING MAKING COIL WOUND WALL SCREEN	DIG 2	116 117 118 119 220 221 222 223 224 225 226 227 228	FORMING ARTICLE ON END OF LONG STOCK AND THEN CUTTING OFF METHOD OR APPARATUS WITH ETCHING METHOD OR APPARATUS WITH MAKING FLOW LINES; CRYSTALS METHOD OR APPARATUS WITH FORGING METHOD OR APPARATUS WITH GRINDING METHOD OR APPARATUS FOR DOUBLE BLANK METHOD OR APPARATUS FOR HEATING METHOD OR APPARATUS USING INDIUM METHOD OR APPARATUS WITH KNURLING METHOD OR APPARATUS WITH LOCAL HEATING METHOD OR APPARATUS WITH PARTICULAR MATERIAL METHOD OR APPARATUS WITH MACHINING METHOD OR APPARATUS WITH MACHINING METHOD OR APPARATUS WITH MACHINING METHOD OR APPARATUS USING MAGNESIUM MAGNETIC RECORDING DIGEST
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DTC	2.2	GGODING WITHU OMNED GMED	DTC	0.1	GIG IG I GONTENOD
DIG		SCORING WITH OTHER STEP	DIG		GAS AS A CONVEYOR
DIG DIG	_	SCALING WITH OTHER STEP SHRINK FITTING WITH OTHER STEP	DIG		AIR CURRENT GENERATED BY CUTTER FAN COAXIAL WITH CUTTER
DIG		SHOT BLASTING WITH OTHER STEP	DIG		VACUUM EXHAUST TYPE
DIG			DIG		WITH FLUID CONTROL VALVE
DIG	_	STAMPING WITH OTHER STEP SPOT WELDING WITH OTHER STEP	DIG		HOOD ENCASED CUTTER
DIG			DIG		MULTIPLE FLUID PATHS
DIG		SPRAYING WITH OTHER STEP	DIG		
DIG	40	STRIPS OF REPEATED ARTICLES - CUT UP LATER	DIG	00	BY PROJECTING, SQUIRTING OR DRIPPING
DIG	11	TAPER TUBE MAKING	DIG	20	GAS ENTRAINED LIQUID SUPPLY
DIG		TENSION APPLIED DURING WORKING	DIG		ELEVATED TANK SUPPLY
DIG		UPSETTING AND FLANGING TUBE END	DIG		PLURAL DISCHARGE OPENINGS
DIG		VACUUM		92	
DIG		TITANIUM	_	93	
DIG		VIBRATION	_	94	DEBRIS REMOVER, CATCHER, OR
DIG		EXTRUDING WITH OTHER STEP	DIG	74	DEFLECTOR
DIG		WELDING WITH OTHER STEP	DIG	95	MAGNETIC OR ELECTROSTATIC
DIG		WORK HARDENING WITH OTHER STEP	_	96	
DIG		CUTTING FLUID APPLICATION AND		- 0	CUTTER ENGAGING CLEANER
DIG	50	DEBRIS CONTROL	DIG	_	ROTATING, RECIPROCATING OR
DIG	51	POWER STOP CONTROL FOR MOVABLE	DIO	50	OSCILLATING CLEANER
DIO	3 -	ELEMENT	DTG	99	FLEXIBLE CONVEYOR
DIG	52	CHIP BREAKER			SCREW OR CAM CONVEYOR
DIG		WORKPIECE AND DEBRIS SEPARATOR	_		PAN, BED, OR TABLE
DIG		FLUID CONTROL INTERRELATED WITH			DEBRIS CHUTE
		MACHINE TOOL MECHANISM			TOOL OR WORK ATTACHED
DIG	55	WITH CUTTER DRIVE	DIG	105	ASSEMBLY, MAGNETIC, OR INDICIA
DIG	56	WITH SHIELD OR HOOD MOVEMENTS			TOOL
DIG	57	WITH CUTTER FEED			
DIG	59	HOOD ACTUATED BY TOOL OR WORK			
		APPROACH			
DIG	60	PROGRESSIVE DISPLACEMENT OF HOOD			
DIG	61	PLURAL-TYPE DEBRIS REMOVERS			
DIG	62	RUBBING TRANSFER OF SOLID COATING			
		TO ROTATING ELEMENT			
DIG	63	FLUID CONVEYOR OR APPLICATOR			
DIG	64	AMBULATORY CUTTER WITH FLUENT			
		CONDUIT			
DIG	65	CUTTER CONTAINED SUPPLY RESERVOIR			
DIG	66	FLUID FLOW TO CHANNELED CUTTER			
DIG		ROTATING CUTTER			
DIG	68	HOLLOW SPINDLE CONTAINS			
DIG	69	FLUID SPREADER CONTACTS CUTTER			
DIG	70	ROTARY OR OSCILLATING FLUID			
		APPLICATOR			
DIG		COMPLETE IMMERSION OF CUTTER			
DIG		DIP OR SPLASH SUPPLY			
DIG		CHAIN OR BELT CONVEYOR			
DIG		PARTIAL IMMERSION OF CUTTER			
DIG		ADJUSTABLE LIQUID LEVEL			
DIG		MOVABLE LIQUID-CARRYING TROUGH			
		WITH SEPARATOR OR FILTER			
DIG		AIR BLAST AND/OR VACUUM CONVEYOR			
DТG	19	REMOVABLE DEBRIS RECEPTACLE			